

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL TRC-55 (21-151)

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

GC ELECTRONICS:

CF1,T3,T4,T5,T6,T7,T125000, 8290

ALL other tunable coils and transformers 9440

REALISTIC MODEL TRC-55

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.

Adjustments made with 14-volt DC input.

Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to base of Q4, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	CF1,T5, T6, T7	ANL-OFF, RF gain fully clockwise. Squelch fully counterclockwise. Noise Blanker off, Fine Tuning -0, Set generator output to maintain a 0.5V output across speaker voice coil. Adjust for maximum.
High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, 1 uV.	13	T1, T2, T3, T4, L2	Adjust for maximum.

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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Printed in U. S. of America

6CY303

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 14-volt DC input.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1000uV.	13	R63	Set squelch control fully clockwise. Adjust so that squelch just breaks.
"S" METER High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 100uV.	13	R31	Adjust for "S" 9 on Panel Meter.

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

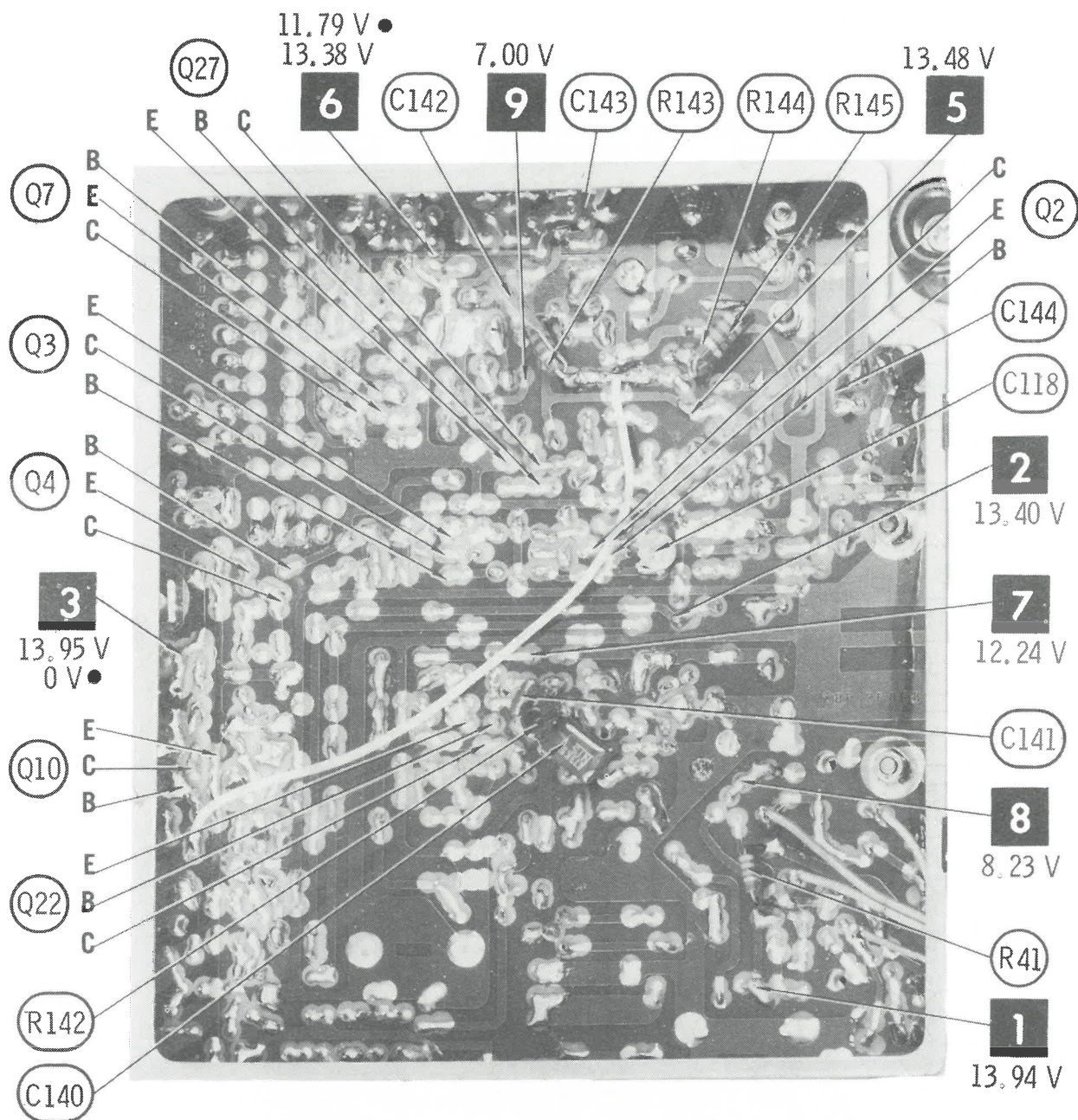
INDICATOR	ADJUST	REMARKS
MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	T10, T11, T12, T13, L10	Channel selector to CH13. Key Transmitter. Adjust for maximum.
TVI TRAP TV (Ch. 2)	L1	Key Transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Remove jumper at TP and connect 0-500 DC milliammeter.	L9	Adjust for 5 watts (Max).

TRANSMITTER ADJUSTMENTS

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

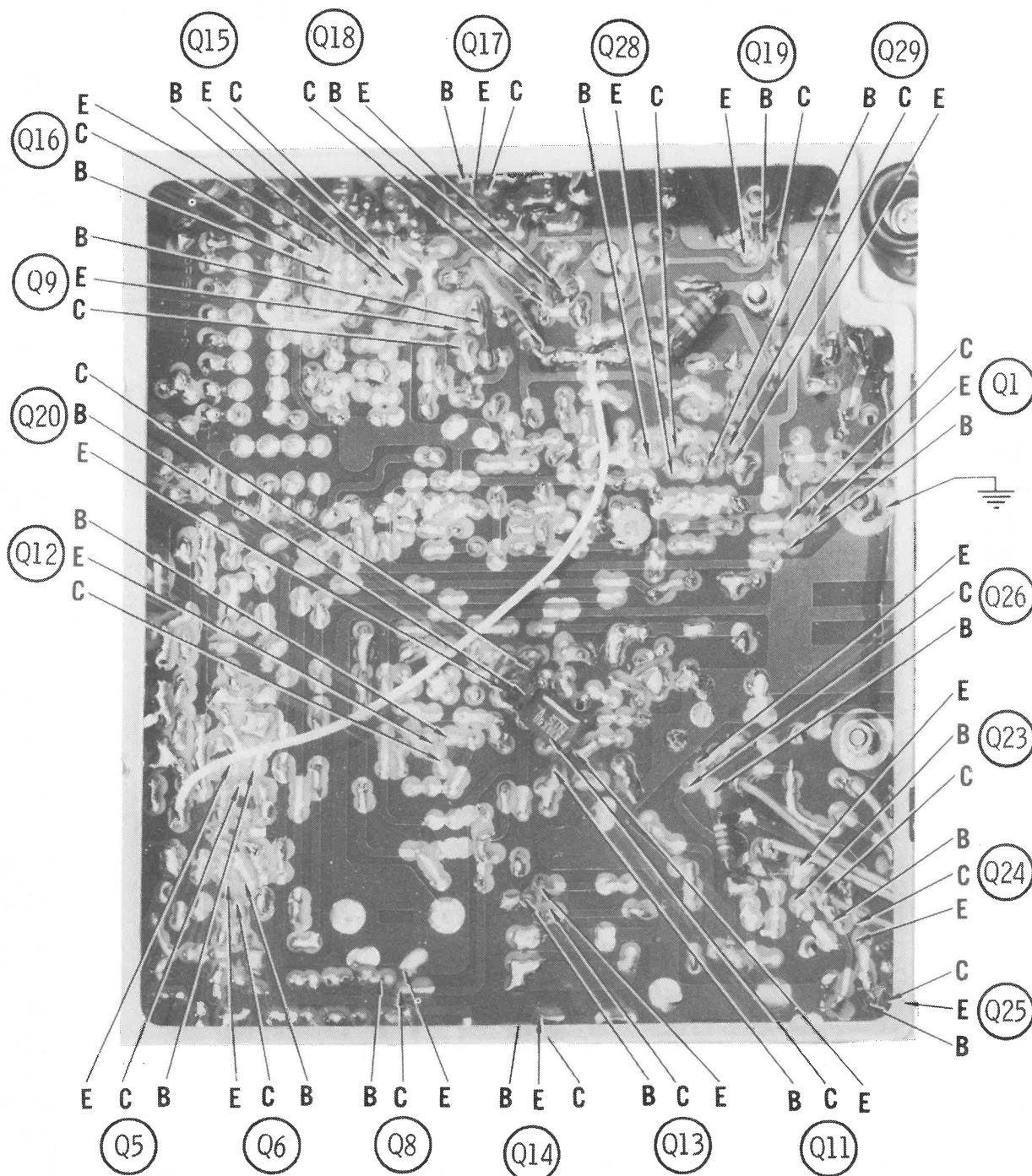
INDICATOR	ADJUST	REMARKS
VOLTAGE REGULATOR DC Voltmeter connected to emitter of Q25 and ground.	R115	Adjust for 14V DC at emitter of Q25. Key transmitter. Voltage should not vary.
RF PANEL METER RF Wattmeter	R32	Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.



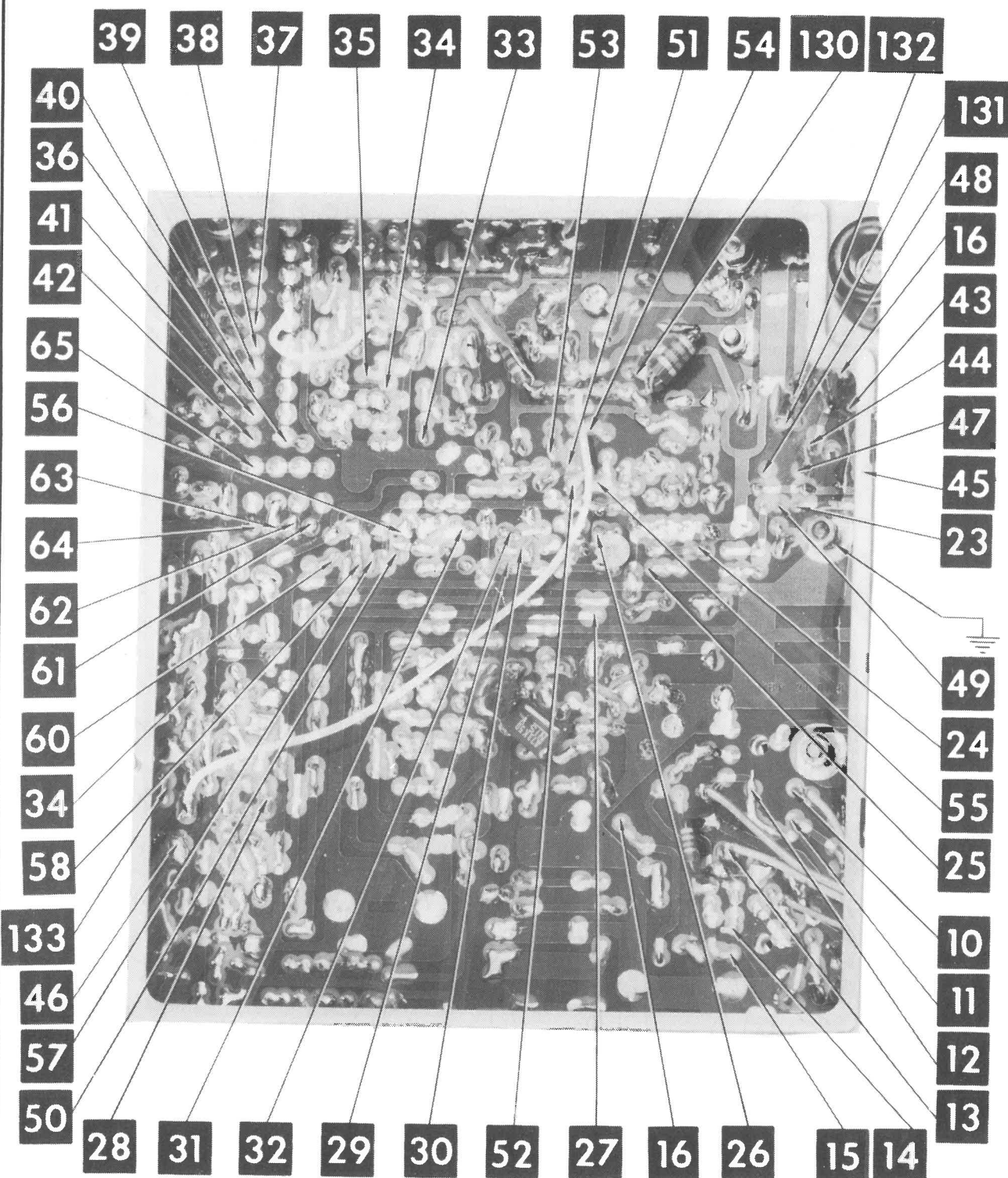


• TRANSMIT

MAIN BOARD

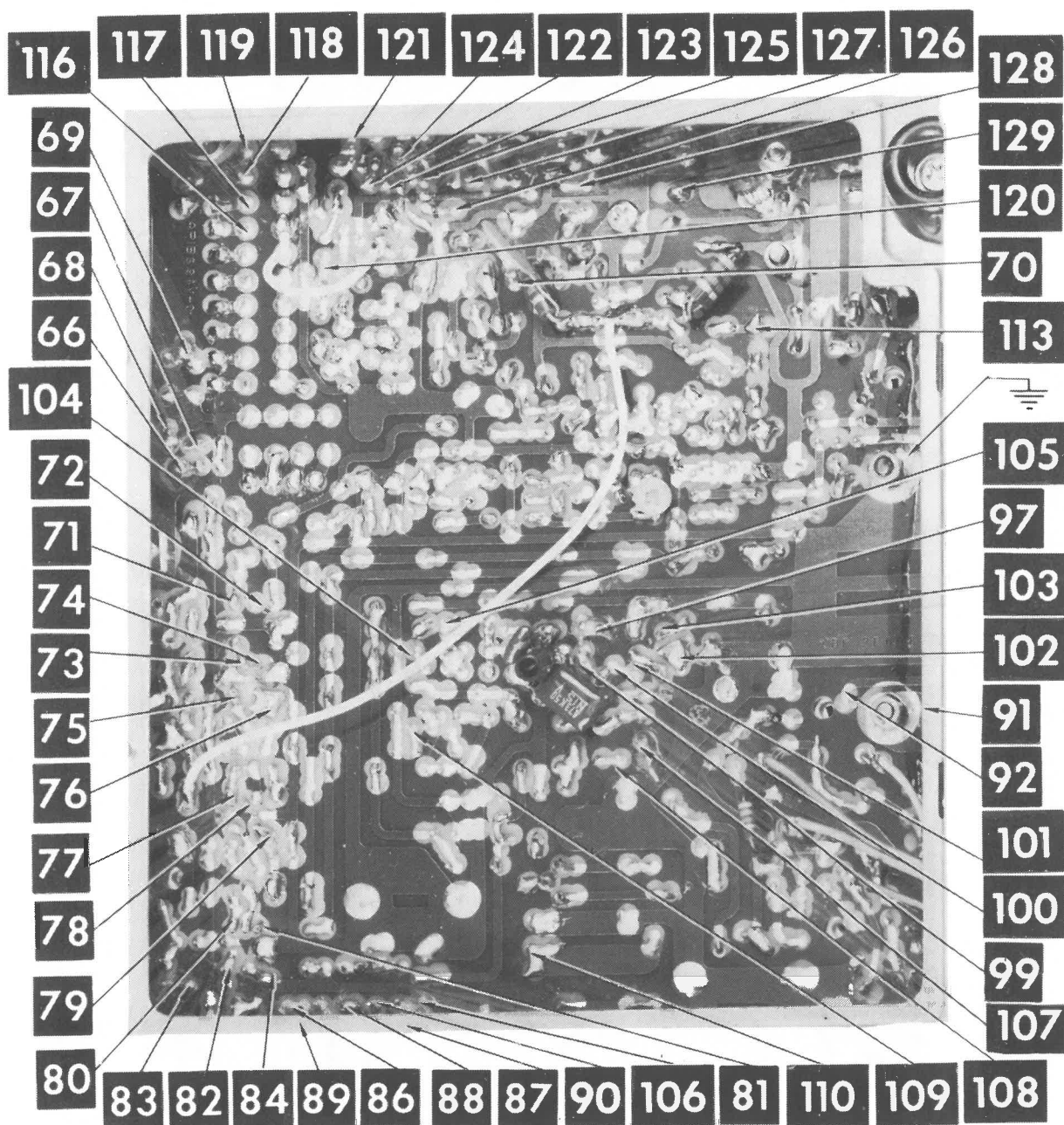


MAIN BOARD

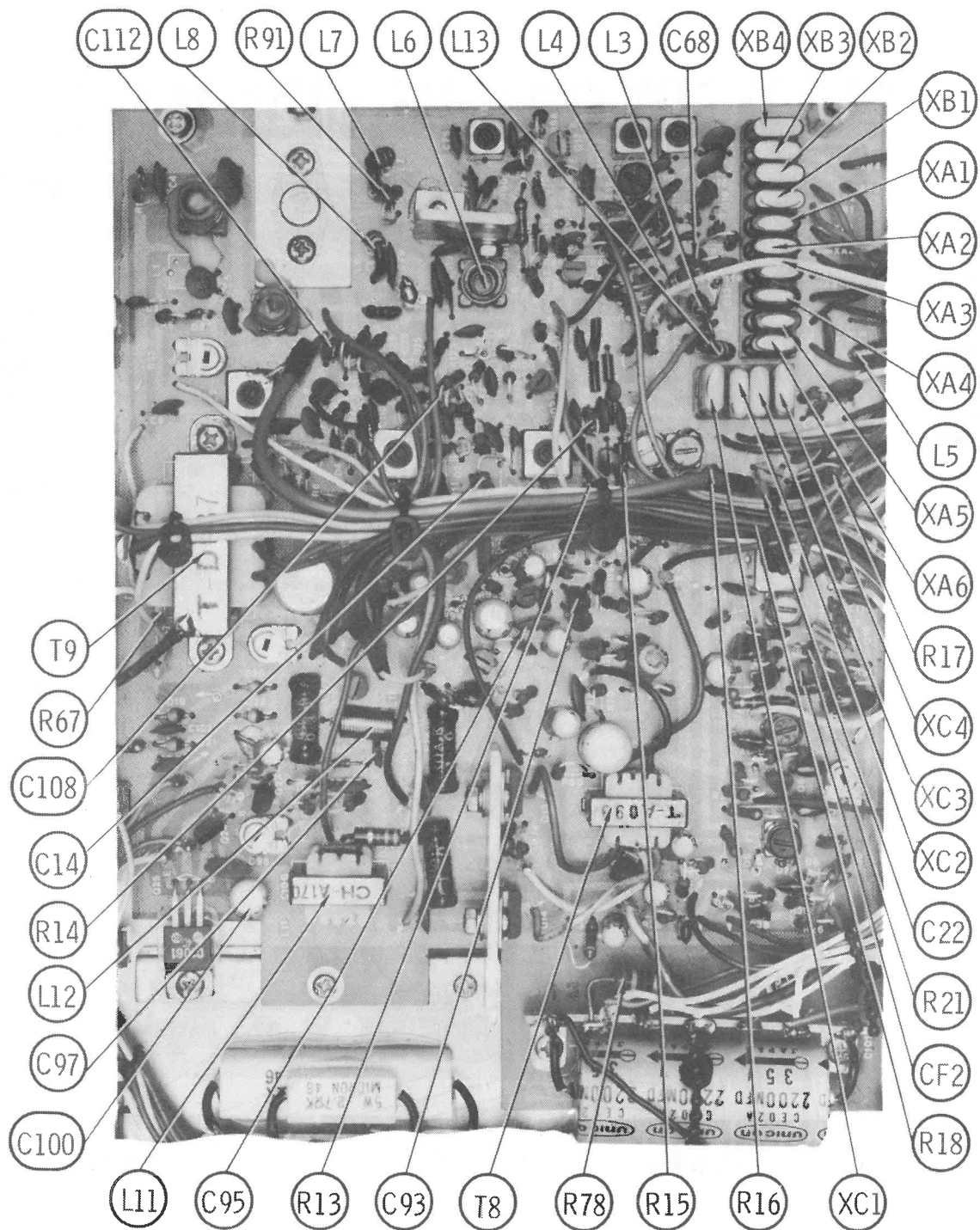


MAIN BOARD

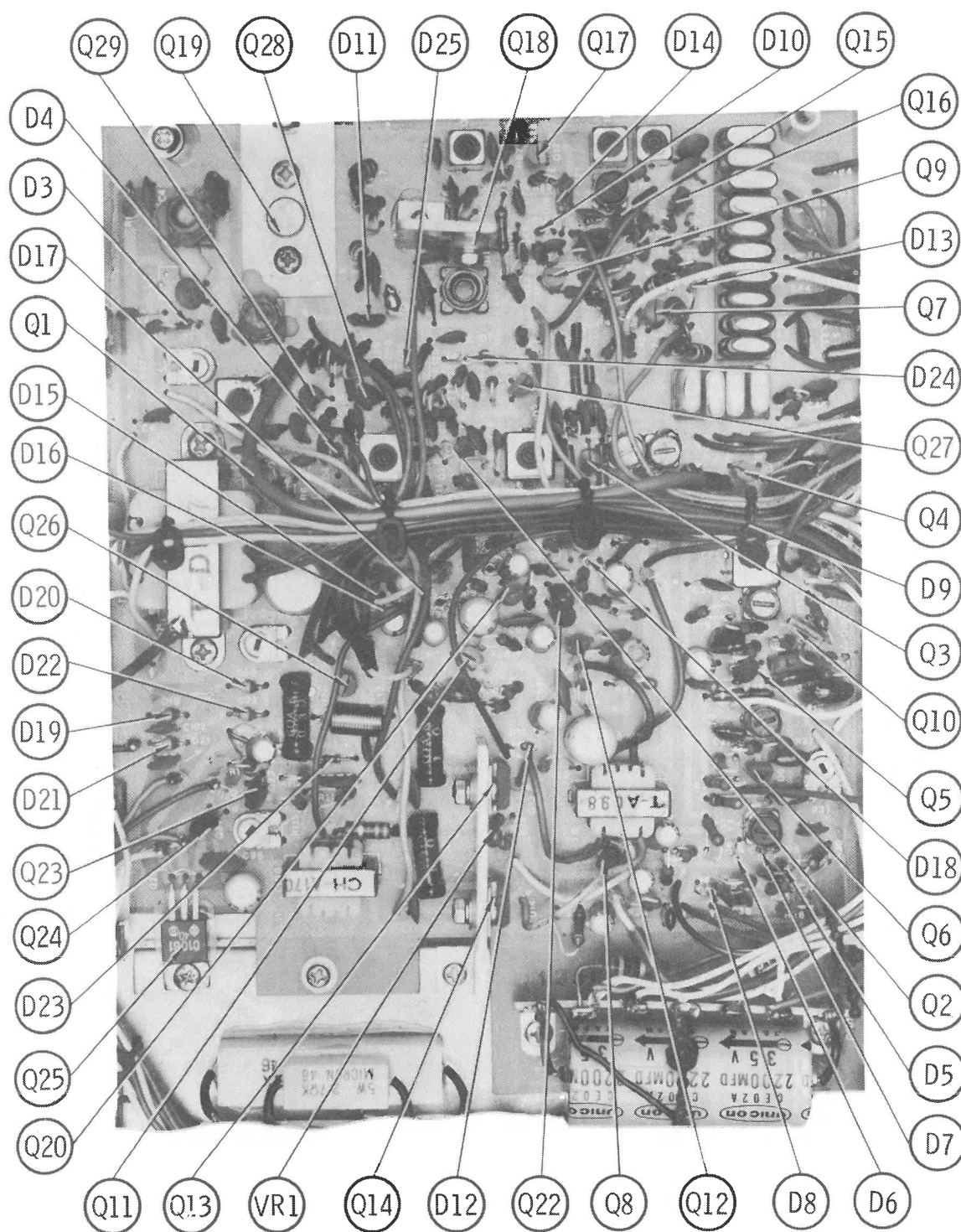
REALISTIC MODEL TRC-55



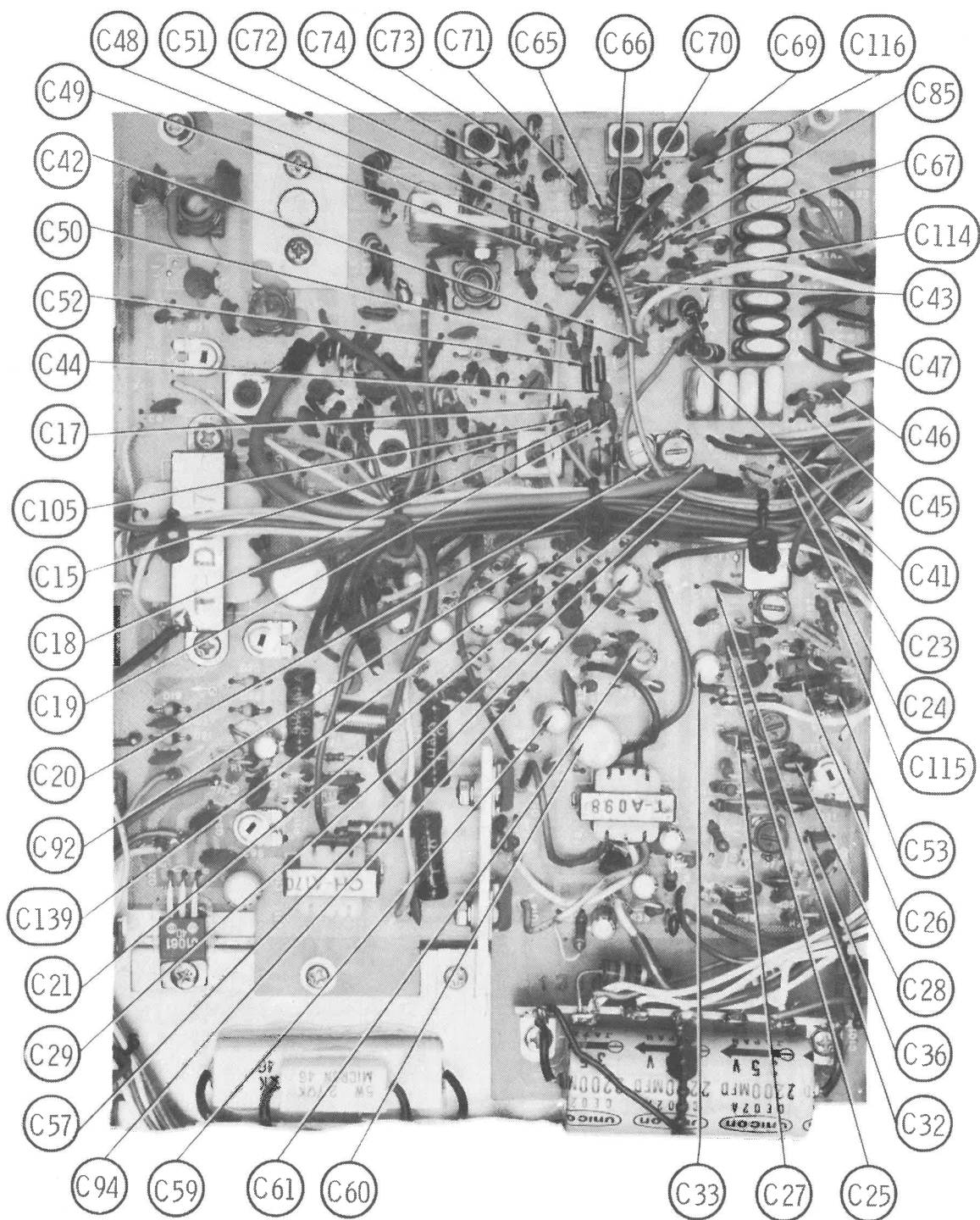
MAIN BOARD



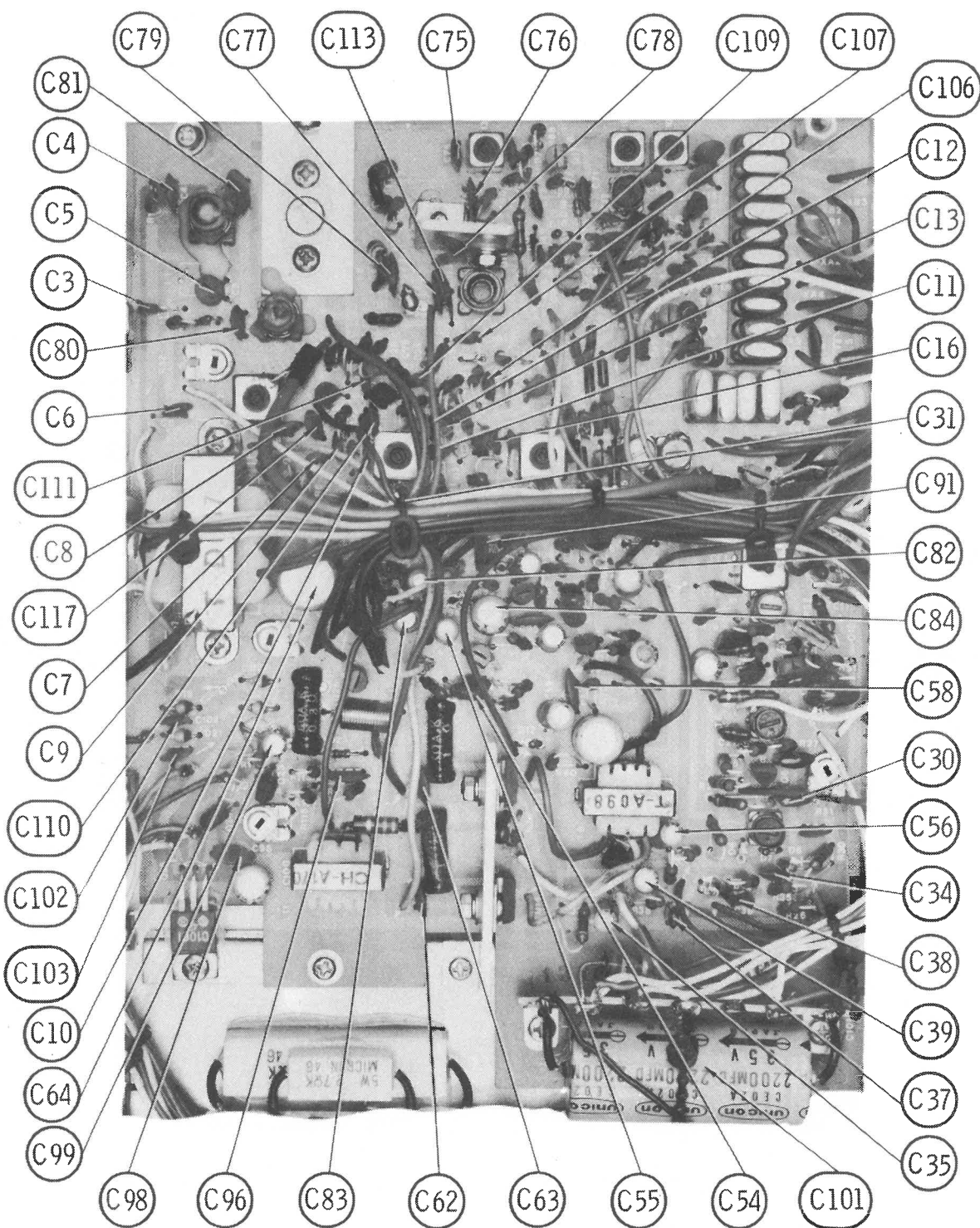
MAIN BOARD



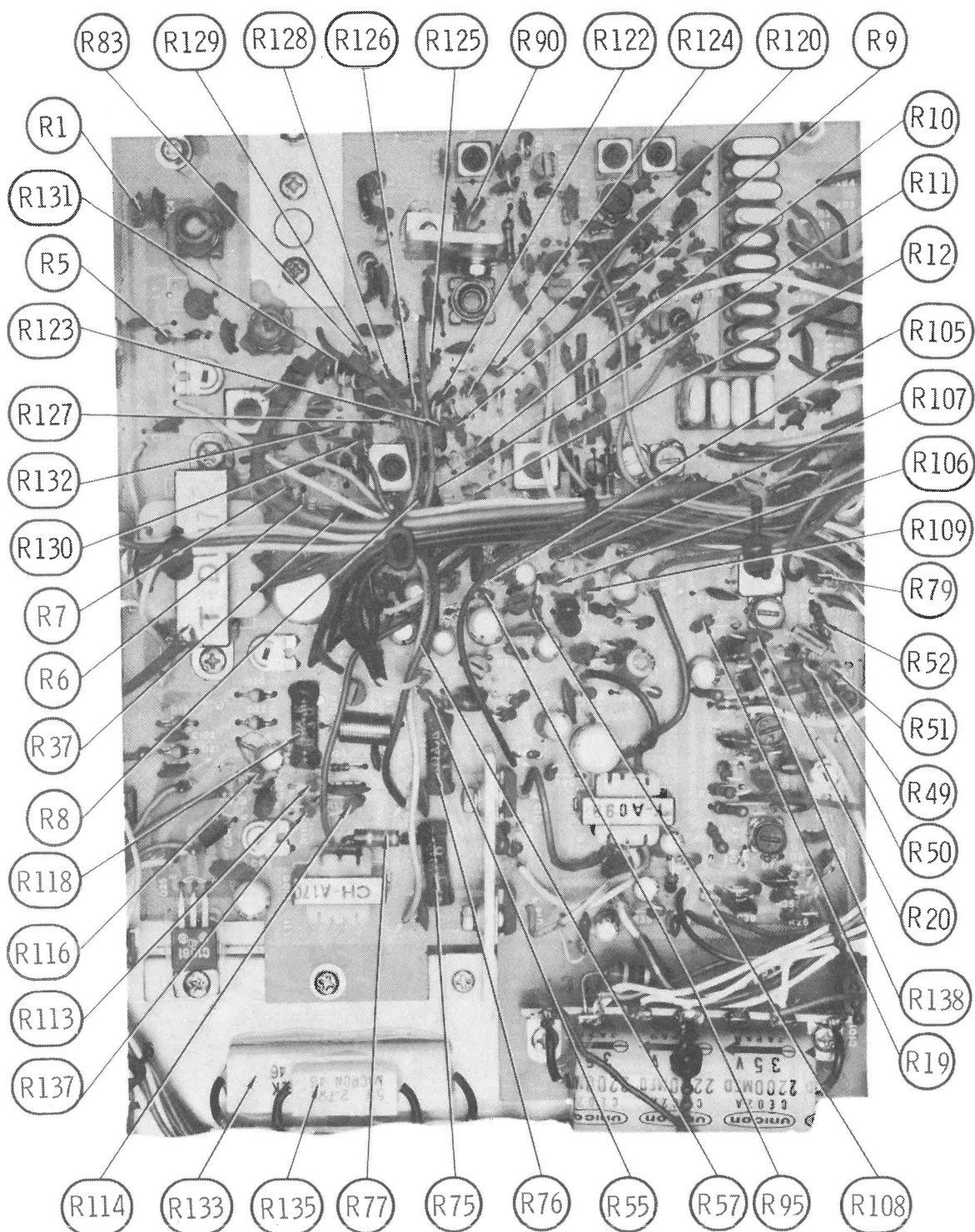
MAIN BOARD



MAIN BOARD

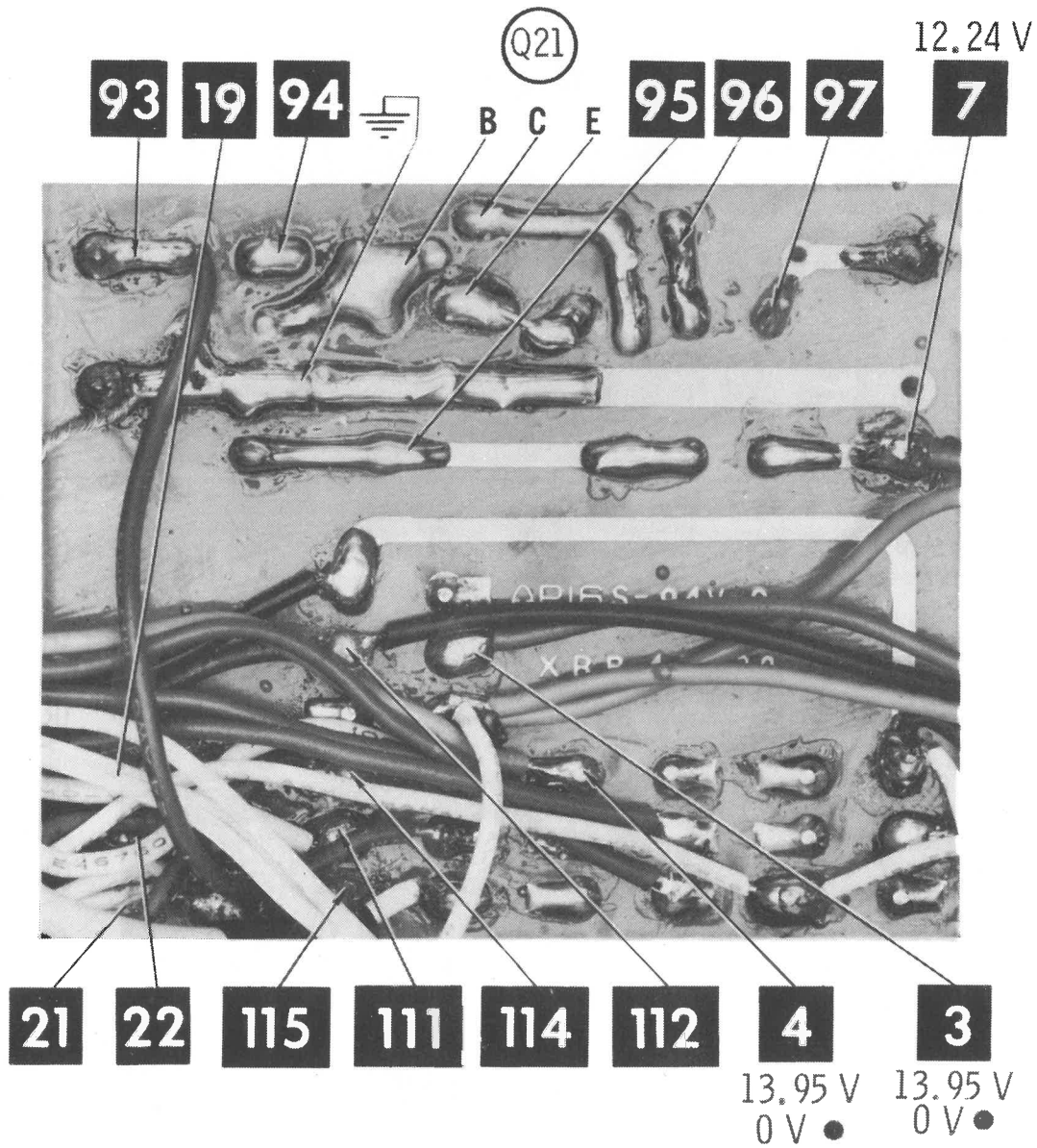


MAIN BOARD



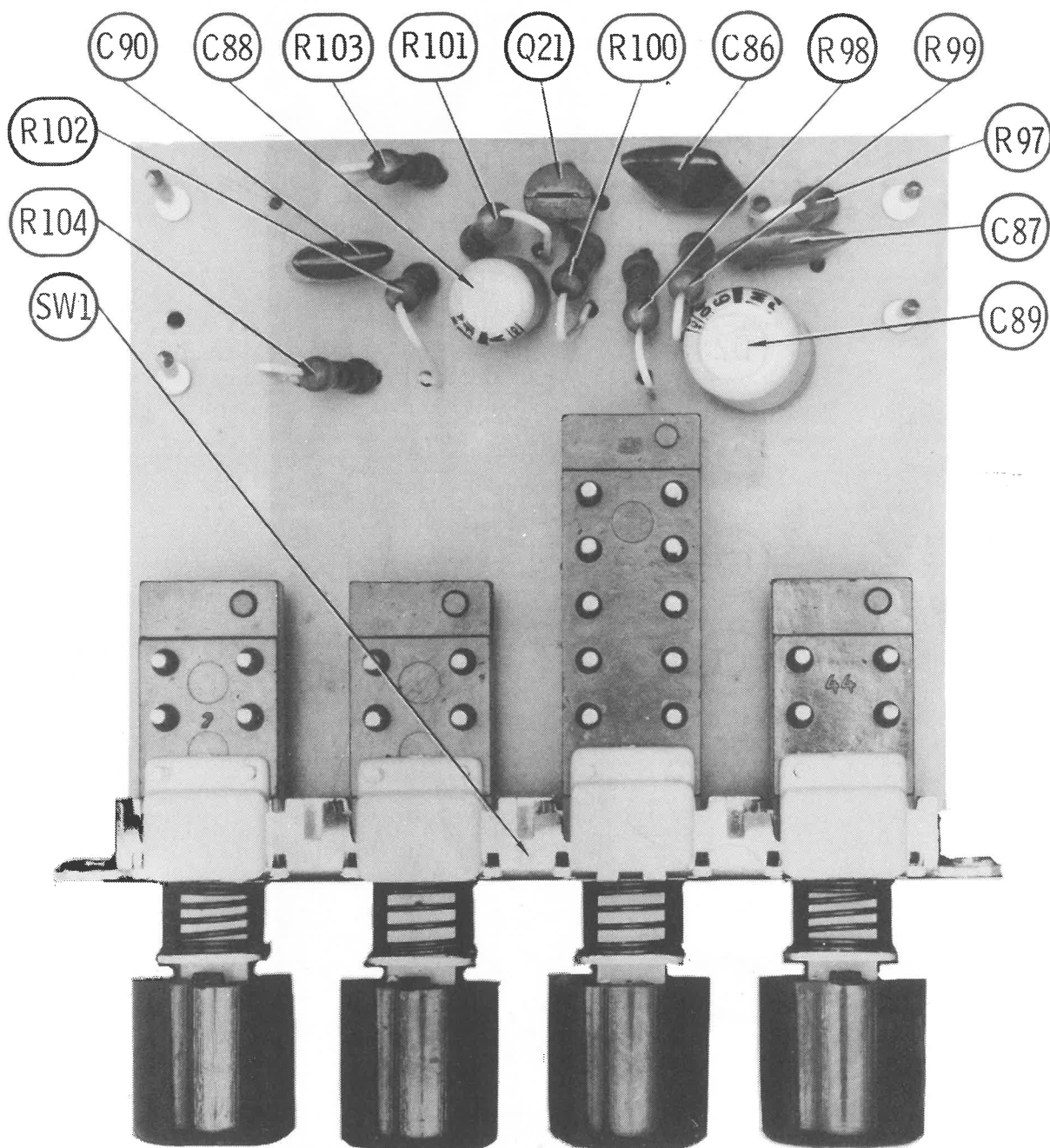
MAIN BOARD



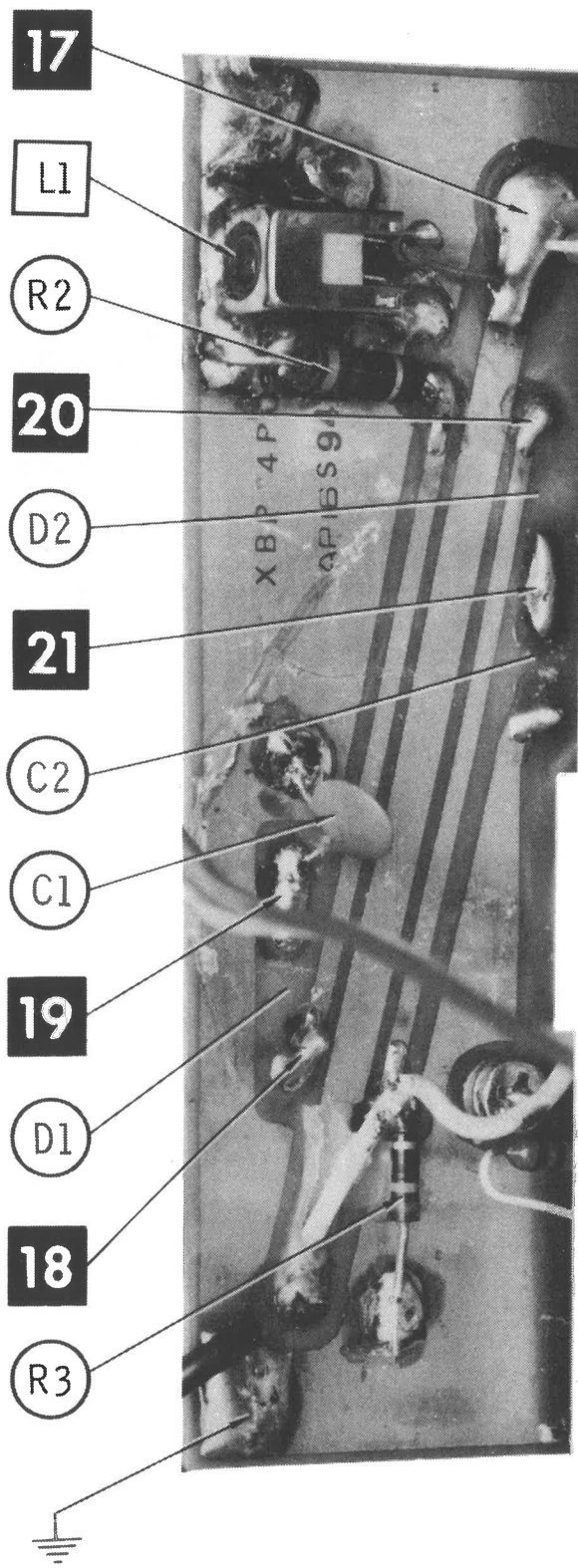


● TRANSMIT

SWITCH BOARD



SWITCH BOARD



ANTENNA INPUT - METER BRIDGE BOARD

PARTS LIST AND DESCRIPTION

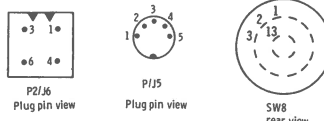
(When ordering parts, state Model, Part Number, and Description.)

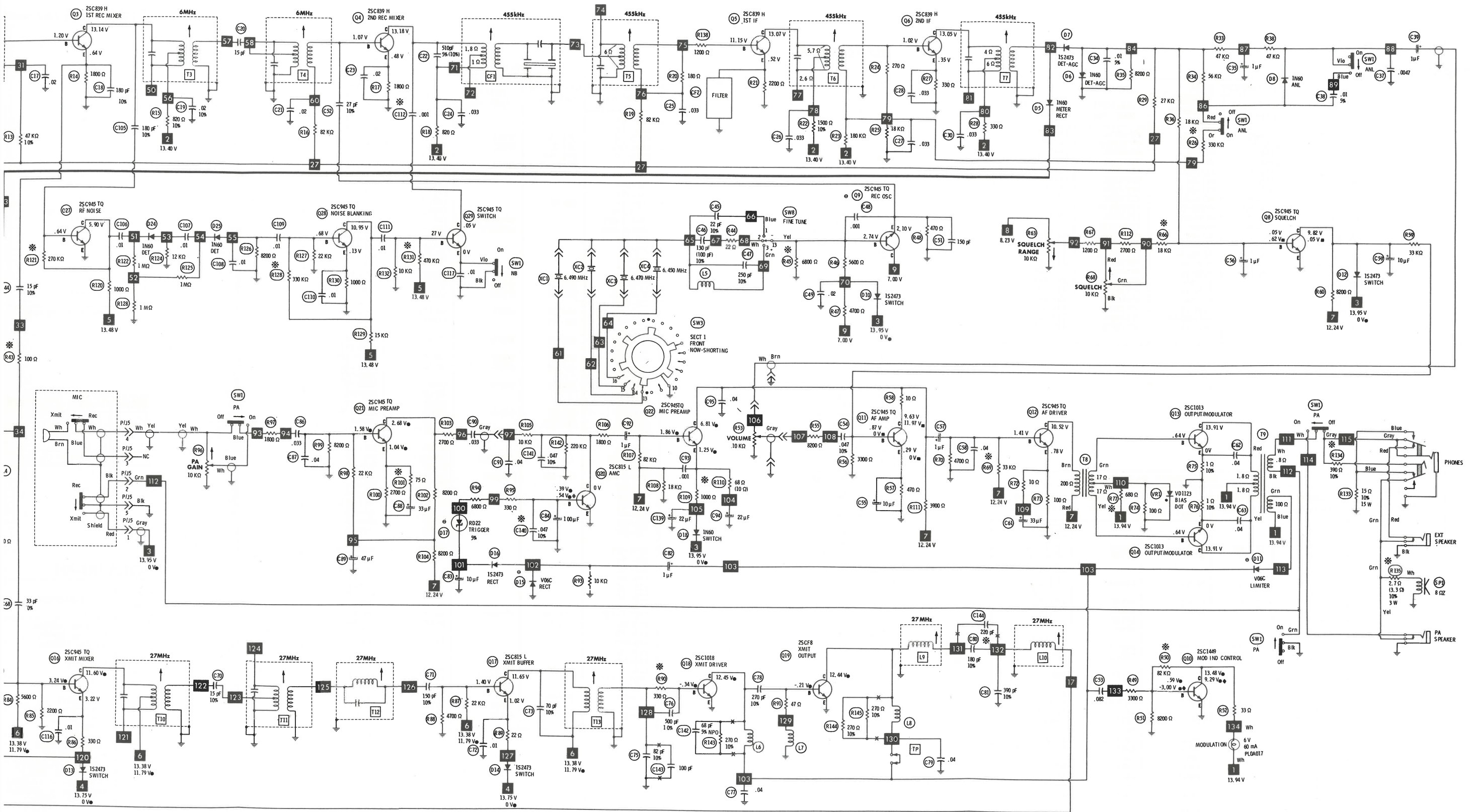
SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D2	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D3	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D4	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D5	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D6	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D7	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D9	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D10	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	V06C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-210	ECG116
	1N4002	(1)	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D12	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D14	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D15	V06C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
	1N4002	(1)	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-210	ECG116
D16	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	RD22 (22 Volt 5% Zener)				ZB22B				RT-248	ECG5080
D18	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D19	V06C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-210	ECG116
	1N4002	(1)	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D20	V06C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-210	ECG116
	1N4002	(1)	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D21	V06C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-210	ECG116
	1N4002	(1)	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D22	V06C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-210	ECG116
	1N4002	(1)	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D23	RD9.1EB (9.1 Volt 5% Zener)				ZB9.1B				RT-240	ECG139
D24	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D25	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-200	ECG109
D26	V06C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
	1N4002	(1)	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
Q1	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q2	2SC605K		GE-60	TR-70	PTC115	HEPS0020	RE 9	SK3018	RT-108	ECG313
Q3	2SC839H		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q4	2SC839H		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q5	2SC839H		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q6	2SC839H		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q7	2SC839H		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
	2SC945TQ	(1)	GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q8	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q9	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	2SC839H	(1)	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
	2SC1449	(10)	GE-57		PTC163	HEPS5000	RE 42		RT-194	ECG184
Q10	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q11	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q12	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q13	2SC1013	(11)								ECG299
Q14	2SC1013	(11)								ECG299
Q15	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	2SC839H	(1)	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q16	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q17	2SC815L		GE-210	TR-25	PTC123	HEPS0015	RE 13	SK3024	RT-172	ECG123A
Q18	2SC1018	(12)	GE-215							ECG299
Q19	2SCF8		GE-46	TR-65	PTC158	HEPS3001	RE 79	SK3048	RT-182	ECG237
Q20	2SC815L		GE-210	TR-25	PTC123	HEPS0015	RE 13	SK3024	RT-172	ECG123A
Q21	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q22	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q23	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q24	2SC815K		GE-210	TR-25	PTC123	HEPS0015	RE 13	SK3024	RT-172	ECG123A
Q25	2SC1061	(13)	GE-66	TR-76	PTC137		RE 21	SK3054	RT-197	ECG152
Q26	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q27	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q28	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q29	2SC945TQ		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
VR1	VD1123									

- (1) Used in some versions.
 (10) Rating 5.0 watts @ 3.0 amps.
 (11) Rating 7.0 watts @ 1.5 amps.
 (12) Rating 4.0 watts @ 1.0 amps.
 (13) Rating 25 watts @ 3.0 amps.

REALISTIC MODEL TRC-55





PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C31	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C33	3.3 50V		RME-B-J-003	EP50-5	PC5-50	VTT3R3A50	EV-1618
C35	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C39	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C55	10 10V		RME-A-D-010	EP15-10	PC10-25	VTT10A25	EV-1222
C56	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C57	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C59	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C60	220 16V		RME-J-E-250	EP15-250	PC250-25	VTT220G16	EV-1240
C61	33 10V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C64	470 16V		RME-L-E-500	EP15-500	PC500-16	VTT470J16	EV-1250
C82	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C83	10 35V		RME-D-J-010	EP50-10	PC100-16	MTV10CB16	EV-1622
C84	100 10V		RME-E-E-100	EP15-100	PC30-25	VTT100F16	EV-1230
C88	33 10V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C89	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C92	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C94	22 16V		RME-D-G-025	EP15-25	PC25-25	VTT22A16	EV-1224
C99	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C100	33 25V		ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C101	2200 35V		ME-J2000		WBR2000-50	TC50200A	TVA-1318.3
C139	22 16V		RME-D-G-025	EP15-25	PC25-25	VTT22A16	EV-1224

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.01		CCD-103				10TS-S10
C2	.01		CCD-103				10TS-S10
C3	3 10%		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C4	300 10%		CCD-301	DD-301	GP300	GP330	10TS-T30
C5	.01		CCD-103				10TS-S10
C6	.01		CCD-103				10TS-S10
C7	50 10%		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C8	.01		CCD-103				10TS-S10
C9	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C10	50 10%		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C11	.02		CCD-203			GP120	5GA-S20
C12	.02		CCD-203			GP120	5GA-S20
C13	.01		CCD-103				10TS-S10
C14	1.5 +.5			DTZ-1R5	NP01P5	CN0515	10TCC-V15
C15	33 10%		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C16	.01		CCD-103				10TS-S10
C17	.02		CCD-203			GP120	5GA-S20
C18	180 10%						
C19	.02 10%		CCD-203			GP120	5GA-S20
C20	15		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C21	.02		CCD-203			GP120	5GA-S20
C22	510 5%		DM15-511J	CPR-510J	CD15FD511J03	SX351	424ME5100J501
C23	.02		CCD-203			GP120	5GA-S20
C24	.033 50V		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C25	.033 50V		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C26	.033 50V		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C27	.033 50V		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C28	.033 50V		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C29	.04		CCD-403			GP140	5GA-S40
C30	.033		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C32	.02		CCD-203			GP120	5GA-S20
C34	.01 5% 50V		1MDF-1-103	CPJ-103	DPMS4S1	EW61A110	1PB-S10
C36	.02		CCD-203			GP120	5GA-S20
C37	.0047 50V		CCD-472				10TS-D47
C38	.01 5% 50V		1MDF-1-103	CPJ-103	DPMS4S1	EW61A110	1PB-S10
C41	33 10%		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C42	.01		CCD-103				10TS-S10
C43	.01		CCD-103				10TS-S10
C44	15 10%		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C45	22 10%		CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C46	130		CCTO-151	DTZ-150		CN0315	10TCC-T15
C47	250		CCD-271	DD-271	GP270	GP327	10TS-T27
C48	.001						
C49	.02		CCD-203			GP120	5GA-S20
C50	.02		CCD-203			GP120	5GA-S20
C51	150		CCD-151	DD-151		CN0315	10TCC-T15
C52	27 10%		CCTO-270			CN0427	10TCC-Q27
C53	.082 50V		1MDF-3-823		DPMS6S82	EW61A182	1PB-S82
C54	.047 10% 50V		1MDF-2-473		DPMS2S47	EW61A147	1PB-S47
C58	.04		CCD-403			GP140	5GA-S40
C62	.04		CCD-403			GP140	5GA-S40
C63	.04		CCD-403			GP140	5GA-S40
C65	.01		CCD-103				10TS-S10
C66	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C67	10 10%		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C68	33 10%		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C69	.01		CCD-103				10TS-S10
C70	15 10%		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C71	150 10%		CCD-151	DD-151		CN0315	10TCC-T15
C72	.01		CCD-103				10TS-S10
C73	70 10%		CCTO-750	DTZ-75	NP075	CN0475	10TCC-Q75
C74	.01		CCD-103				10TS-S10
C75	82 10%		CCTO-820	DTZ-82	NP082	CN0482	10TCC-Q82
C76	500 10%		CCD-501	DD-501	GP500	GP350	10TS-T50
C77	.01		CCD-103				10TS-S10
C78	270 10%		CCD-271	DD-271	GP270	GP327	10TS-T27
C79	.04		CCD-403			GP140	5GA-S40
C80	180 10%		CCD-222			GP222	10TS-D22
C81	390 10%		CCD-391	DD-391	GP390	GP339	10TS-T39
C85	.001 10%		CCD-102	DD-102		GP210	10TS-D10
C86	.033		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C87	.04		CCD-403			GP140	5GA-S40
C90	.033		6DP-3-333		DPMS6S33	EW6133	6PS-S33
C91	.04		CCD-403			GP140	5GA-S40
C93	.001 50V		1MDF-1-102	CPJ-102	DPMS6D1	EW61A210	1PB-D10
C95	.04		CCD-403			GP140	5GA-S40
C96	.04		CCD-403			GP140	5GA-S40
C97	.001		CCD-102	DD-102		GP210	10TS-D10
C98	.04		CCD-403			GP140	5GA-S40
C102	.02		CCD-203			GP120	5GA-S20
C103	.02		CCD-203			GP120	5GA-S20
C104	.001 1.4KV N220						
C105	18 10%		CCTO-180			CN0418	10TCC-Q18
C106	.01		CCD-103				10TS-S10
C107	.01		CCD-103				10TS-S10
C108	.01		CCD-103				10TS-S10
C109	.01		CCD-103				10TS-S10
C110	.01		CCD-103				10TS-S10
C111	.01		CCD-103				10TS-S10
C112	.001 50V		1MDF-1-102	CPJ-102	DPMS6D1	EW61A210	1PB-D10
C113	.04		CCD-403			GP140	5GA-S40
C114	.01		CCD-103				10TS-S10
C115	.04		CCD-403			GP140	5GA-S40
C116	.01		CCD-103				10TS-S10
C117	.01		CCD-103				10TS-S10
C118	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C140	.047 10% 50V		1MDF-2-473		DPMS2S47	EW61A147	1PB-S47
C141	.047 10% 50V		1MDF-2-473		DPMS2S47	EW61A147	1PB-S47
C142	68 5%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C143	100		CCD-101	DD-101	GP100	GP310	10TS-T10
C144	200		CCD-201	DD-201	GP200	GP320	10TS-T20

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CONTROLS (All wattage)

ITEM No.	FUNCTION	R
R4	SWR Cal	10K
R31 R32 R53	S Meter RF Meter Volume/Switch	10K 50K 10K
R62	RF Gain	10K
R63 R68	Squelch Range Squelch	10K 10K
R96	PA Gain	10K
R115	Voltage	50K

(1) Enlarge mounting hole.

RESISTORS (Power and S

ITEM No.	RATING	WC PA
R133	15 15W WW	

COILS (RF-IF)

ITEM No.	FUNCTION
CF1	Input IF (455kHz)
L1	TVI Trap (54MHz)
L2	Rec Ant (27MHz)
L3	Synth Osc
L4	Synth Osc
L5	RF Choke
L6	Xmit Driver
L7	RF Choke
L8	Xmit Output
L9	Final Tank (27MHz)
L10	Final Tank (27MHz)
L12	RF Choke
L13	Synth Osc
T1	Rec Ant. (27MHz)
T2	Rec RF (27MHz)
T3	Rec Mixer IF (6MHz)
T4	Rec Mixer IF (6MHz)
T5	Interstage IF (455kHz)
T6	Interstage IF (455kHz)
T7	Output IF (455kHz)
T10	Xmit Mixer (27MHz)
T11	Harmonic Sup (27MHz)
T12	Xmit Buffer (27MHz)
T13	Xmit Buffer (27MHz)

PARTS LIST AND DESCRIPTION (CONTINUED)
(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ORY No.	SPRAGUE PART No.
6	EV-1226
50	EV-1618
0	EV-1615
0	EV-1615
5	EV-1222
0	EV-1615
5	EV-1615
0	EV-1615
16	EV-1240
0	EV-1125
16	EV-1250
0	EV-1615
50	EV-1622
16	EV-1230
0	EV-1125
6	EV-1226
0	EV-1615
6	EV-1224
0	EV-1615
5	EV-1325
1A	TVA-1318.3
6	EV-1224

ORY No.	SPRAGUE PART No.
	10TS-S10
	10TS-S10
	10TCC-V33
	10TS-T30
	10TS-S10
	10TS-S10
	10TCC-Q50
	10TS-S10
	10TS-T10
	10TCC-Q50
	5GA-S20
	5GA-S20
	10TS-S10
	10TCC-V15
	10TCC-Q33
	10TS-S10
	5GA-S20
	5GA-S20
	6PS-S33
	6PS-S33
	6PS-S33
	6PS-S33
	6PS-S33
	5GA-S40
	6PS-S33
	5GA-S20
	1PB-S10
	5GA-S20
	10TS-D47
	1PB-S10
	10TCC-Q33

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C42	.01		CCD-103				10TS-S10
C43	.01		CCD-103				10TS-S10
C44	15 10%		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C45	22 10%		CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C46	130		CCTO-151	DTZ-150		CN0315	10TCC-T15
C47	250		CCD-271	DD-271	GP270	GP327	10TS-T27
C48	.001						
C49	.02		CCD-203			GP120	5GA-S20
C50	.02		CCD-203			GP120	5GA-S20
C51	150		CCD-151	DD-151		CN0315	10TCC-T15
C52	27 10%		CCTO-270			CN0427	10TCC-Q27
C53	.082 50V		1MDF-3-823		DPMS6S82	EWF1A182	1PB-S82
C54	.047 10% 50V		1MDF-2-473		DPMS2S47	EWF1A147	1PB-S47
C58	.04		CCD-403			GP140	5GA-S40
C62	.04		CCD-403			GP140	5GA-S40
C63	.04		CCD-403			GP140	5GA-S40
C65	.01		CCD-103				5GA-S40
C66	100 10%		CCD-101	DD-101	GP100	GP310	10TS-S10
C67	10 10%		CCTO-100	DTZ-10	NP010	CN0410	10TS-T10
C68	33 10%		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q10
C69	.01		CCD-103				10TCC-Q33
C70	15 10%		CCTO-150	DTZ-15	NP015	CN0415	10TS-S10
C71	150 10%		CCD-151	DD-151		CN0315	10TCC-Q15
C72	.01		CCD-103				10TCC-T15
C73	70 10%		CCTO-750	DTZ-75	NP075	CN0475	10TS-S10
C74	.01		CCD-103				10TCC-Q75
C75	82 10%		CCTO-820	DTZ-82	NP082	CN0482	10TS-S10
C76	500 10%		CCD-501	DD-501	GP500	GP350	10TCC-Q82
C77	.01		CCD-103				10TS-T50
C78	270 10%		CCD-271	DD-271	GP270	GP327	10TS-S10
C79	.04		CCD-403			GP140	10TS-T27
C80	180 10%		CCD-222			GP222	5GA-S40
C81	390 10%		CCD-391	DD-391	GP390	GP339	10TS-D22
C85	.001 10%		CCD-102	DD-102	GP210	GP339	10TS-T39
C86	.033		6DP-3-333		DPMS6S33	GP210	10TS-D10
						EWF6133	6PS-S33
C87	.04		CCD-403			GP140	5GA-S40
C90	.033		6DP-3-333		DPMS6S33	EWF6133	6PS-S33
C91	.04		CCD-403			GP140	5GA-S40
C93	.001 50V		1MDF-1-102	CPJ-102	DPMS6D1	EWF1A210	1PB-D10
C95	.04		CCD-403			GP140	5GA-S40
C96	.04		CCD-403			GP140	5GA-S40
C97	.001		CCD-102	DD-102		GP140	5GA-S40
C98	.04		CCD-403			GP210	10TS-D10
C102	.02		CCD-203			GP140	5GA-S40
C103	.02		CCD-203			GP120	5GA-S20
C104	.001 1.4KV N220					GP120	5GA-S20
C105	18 10%						
C106	.01		CCD-103			CN0418	10TCC-Q18
C107	.01		CCD-103				10TS-S10
C108	.01		CCD-103				10TS-S10
C109	.01		CCD-103				10TS-S10
C110	.01		CCD-103				10TS-S10
C111	.01		CCD-103				10TS-S10
C112	.001 50V		1MDF-1-102	CPJ-102	DPMS6D1	EWF1A210	10TS-S10
C113	.04		CCD-403			GP140	1PB-D10
C114	.01		CCD-103				5GA-S40
C115	.04		CCD-403			GP140	10TS-S10
C116	.01		CCD-103				5GA-S40
C117	.01		CCD-103				10TS-S10
C118	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C140	.047 10% 50V		1MDF-2-473		DPMS2S47	EWF1A147	1PB-S47
C141	.047 10% 50V		1MDF-2-473		DPMS2S47	EWF1A147	1PB-S47
C142	68 5%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C143	100		CCD-101	DD-101	GP100	GP310	10TS-T10
C144	200		CCD-201	DD-201	GP200	GP320	10TS-T20

PARTS LIST AND DESCRIPTION (CONTINUED)
(When ordering parts, state Model, Part Number, and Description.)

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R4	SWR Cal	10K	P-1489	F1-10K (1), SSK104	A47-10K-S (1), KSS-3 or [NP-10K-S (1), UP-C-400]	RU14L, SL36, SL1500 or [UA14L(1),SK3500] or U20 (1)	BU1 (1), CF9, SS1, DC1
R31	S Meter	10K	P-6243				
R32	RF Meter	50K	P-6244				
R53	Volume/Switch	10K	P-1488	F2-10K (1), SSK104, KR7	A47-10K-Z (1), KSS-3, SWE-20 or [NP-10K-Z (1), UP-C-400,NWE-20]	RU14A, SL36, SL1500, US42 or [UA14A(1), SK3500, US42] or [U18(1), US27]	BU1 (1), CF61, SS1, WF
R62	RF Gain	10K	P-1489	F1-10K (1), SSK104	A47-10K-S (1), KSS-3 or [NP-10K-S (1), UP-C-400]	RU14L, SL36, SL1500 or [UA14L(1),SK3500] or U20 (1)	BU1 (1), CF9, SS1, DC1
R63	Squelch Range	10K	P-6243				
R68	Squelch	10K	P-1489	F1-10K (1), SSK104	A47-10K-S (1), KSS-3 or [NP-10K-S (1), UP-C-400]	RU14L, SL36, SL1500 or [UA14L(1),SK3500] or U20 (1)	BU1 (1), CF9, SS1, DC1
R96	PA Gain	10K	P-1489	F1-10K (1), SSK104	A47-10K-S (1), KSS-3 or [NP-10K-S (1), UP-C-400]	RU14L, SL36, SL1500 or [UA14L(1),SK3500] or U20 (1)	BU1 (1), CF9, SS1, DC1
R115	Voltage	500	P-6242				

(1) Enlarge mounting hole.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R133	15 15W WW	WR15		R135	3,3 5W WW		

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
CF1	Input IF (455kHz)	CA-3092			
L1	TVI Trap (54MHz)	CA-3236	MHF71		
L2	Rec Ant (27MHz)	CA-3230	GT1305		
L3	Synth Osc	CA-3239			
L4	Synth Osc	CA-3239			
L5	RF Choke	CA-3237			
L6	Xmit Driver	CA-3233			
L7	RF Choke	CA-3238			
L8	Xmit Output	CA-3237			
L9	Final Tank (27MHz)	CA-3232			
L10	Final Tank (27MHz)	CA-3231			
L12	RF Choke	CA-3233			
L13	Synth Osc				
T1	Rec Ant. (27MHz)	CA-3229	L-R347		
T2	Rec RF (27MHz)	CA-3230	GT-1304		
T3	Rec Mixer IF (6MHz)	CA-7353	GT-1305		
T4	Rec Mixer IF (6MHz)	CA-7354			
T5	Interstage IF (455kHz)	CA-7355			
T6	Interstage IF (455kHz)	CA-7356			
T7	Output IF (455kHz)	CA-7357			
T10	Xmit Mixer (27MHz)	CA-3085	T-T036		
T11	Harmonic Sup (27MHz)	CA-3086	T-T037		
T12	Xmit Buffer (27MHz)	CA-3234			
T13	Xmit Buffer (27MHz)	CA-3087	T-T038		

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L11	1100mA	.1	.2mH	CB-2225 CH-A170 (1)			(1) Number on unit

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T8	2	1		TN-0075 T-A098 (1)			(1) Number on unit

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T9	32	8	TD-0123 T-D037 (1)			(1) Number on unit

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T14	120V AC @ 420mA AC	19.5V AC @ 2000mA AC	TA-0460 T-H469 (1)			(1) Number on unit

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	2 1/4 x 1 7/8PM 8 ohms	S-4531		

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	2 Amp Fast-acting			AGC2	HDJ	312002	150145	F62-2

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
XA1	33.000		HA32M33.000	1,2,3,4	XB2	6.015		HB32M6.015	3,7,11,15,19
XA2	33.050		HA32M33.050	5,6,7,8	XB3	6.025		HB32M6.025	2,6,10,14,18,22
XA3	33.100		HA32M33.100	9,10,11,12	XB4	6.035		HB32M6.035	1,5,9,13,17,21
XA4	33.150		HA32M33.150	13,14,15,16	XC1	6.490		HCSSM6.490	1,5,9,13,17,21
XA5	33.200		HA32M33.200	17,18,19	XC2	6.480		HCSSM6.480	2,6,10,14,18,22
XA6	33.250		HA32M33.250	20,21,22,23	XC3	6.470		HCSSM6.470	3,7,11,15,19
XB1	5.995		HB32M5.995	4,8,12,16,20,23	XC4	6.450		HCSSM6.450	4,8,12,16,20,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF2	Ceramic Filter	C-0585	455kHz
M1	Meter	M-0256	SWR/S/R/F
SW1	Switch	S7200	On-Off PA/CAL/ANL/NB
SW3	Switch	S1158	Channel Selector
SW8	Switch	S2250	Fine Tuning
	Digital Clock	M-4294	
	Printed Circuit Board	X-4825	Main
	Printed Circuit Board	X-4826	Mic Amp
	Crystal Socket	J6287	10P
	Crystal Socket	J6288	4P

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Cabinet Cover	Y-1428	Knob, Channel Selector	K-1739
Bottom Plate	HB-1835	Knob, Volume Control	K-1740
Front Panel	HB-1836	Knob, Digital Clock	K-1741
Side Panel	HB-1839	Mounting Bracket	HB-1831
Display Plate	HB-1842		
Channel Indicator	HB-1843		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	M-2244	
AC Power Cord Assembly	W-1759	
DC Power Cord Assembly	W-1761	

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet 17109 (Plastic) or 17129 (Rubber) -9 feet
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene